

Sharing code using GitLab and Sourcetree

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The GitLab repository

- For easier code sharing, a GitLab repository was created
- Repository link:
<https://gitlab.gemma.feri.um.si/compromise/compromise>
- Andrej will give everyone the access
- Repository maintainers: Me, Sašo, Štefan

The repository structure

- Separate folder for each programming language
- Projects should be separated by area of interest
- Each programming language folder should have a header-only library of base algorithms that anyone can use

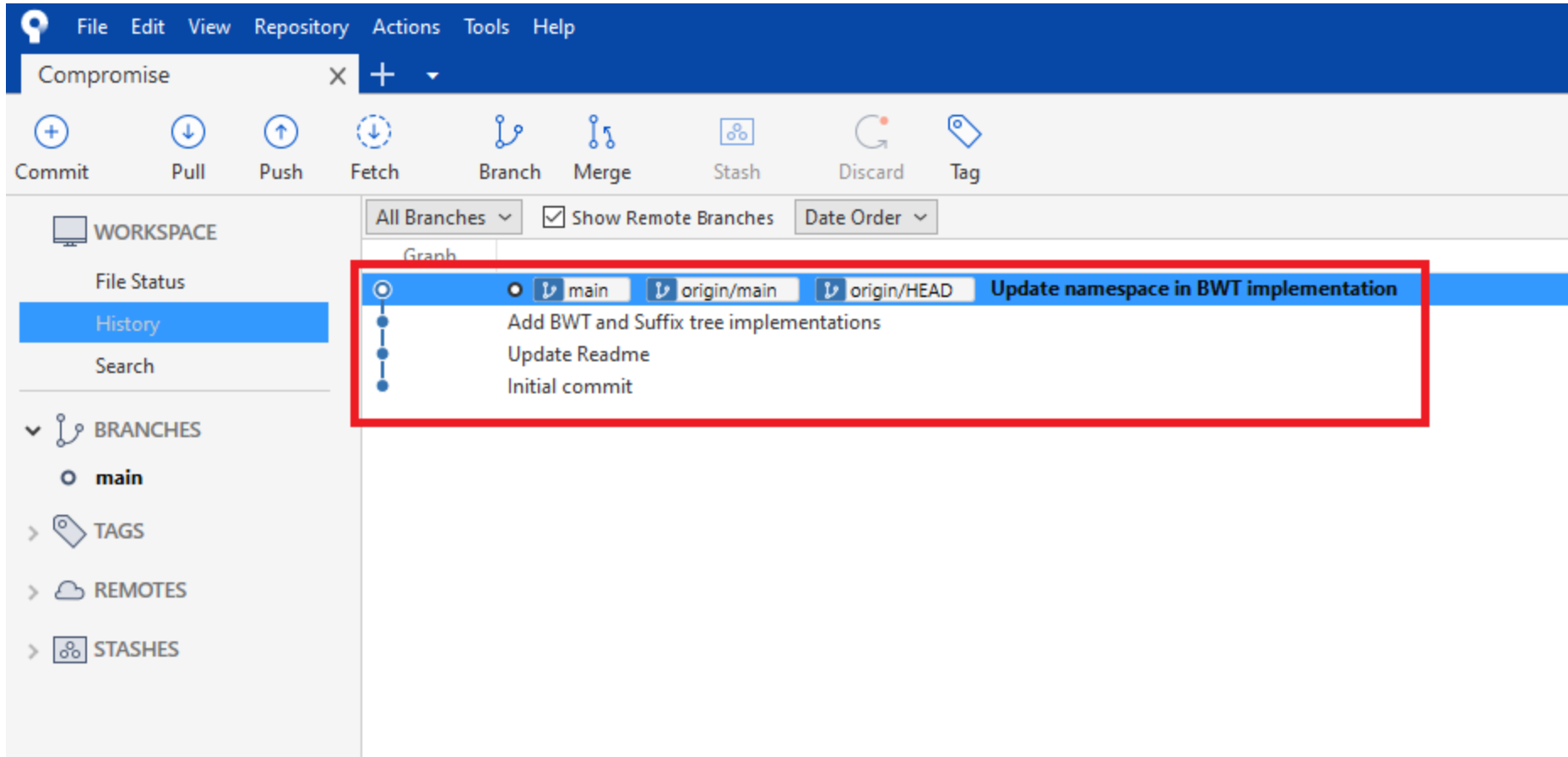
The repository structure

- ▼  Compromise
 - ▼  C++
 - ▼  BaseAlgorithms
 - ▼  BWT
 -  SuffixTree
 - ▼  ImageCompression
 - ▼  Aljaz
 -  Project1
 -  Project2

Sharing code

- Code will be shared using GIT system
- A free GIT GUI client: Sourcetree
(<https://www.sourcetreeapp.com/>)
- A free Bitbucket account is needed
(<https://bitbucket.org>)

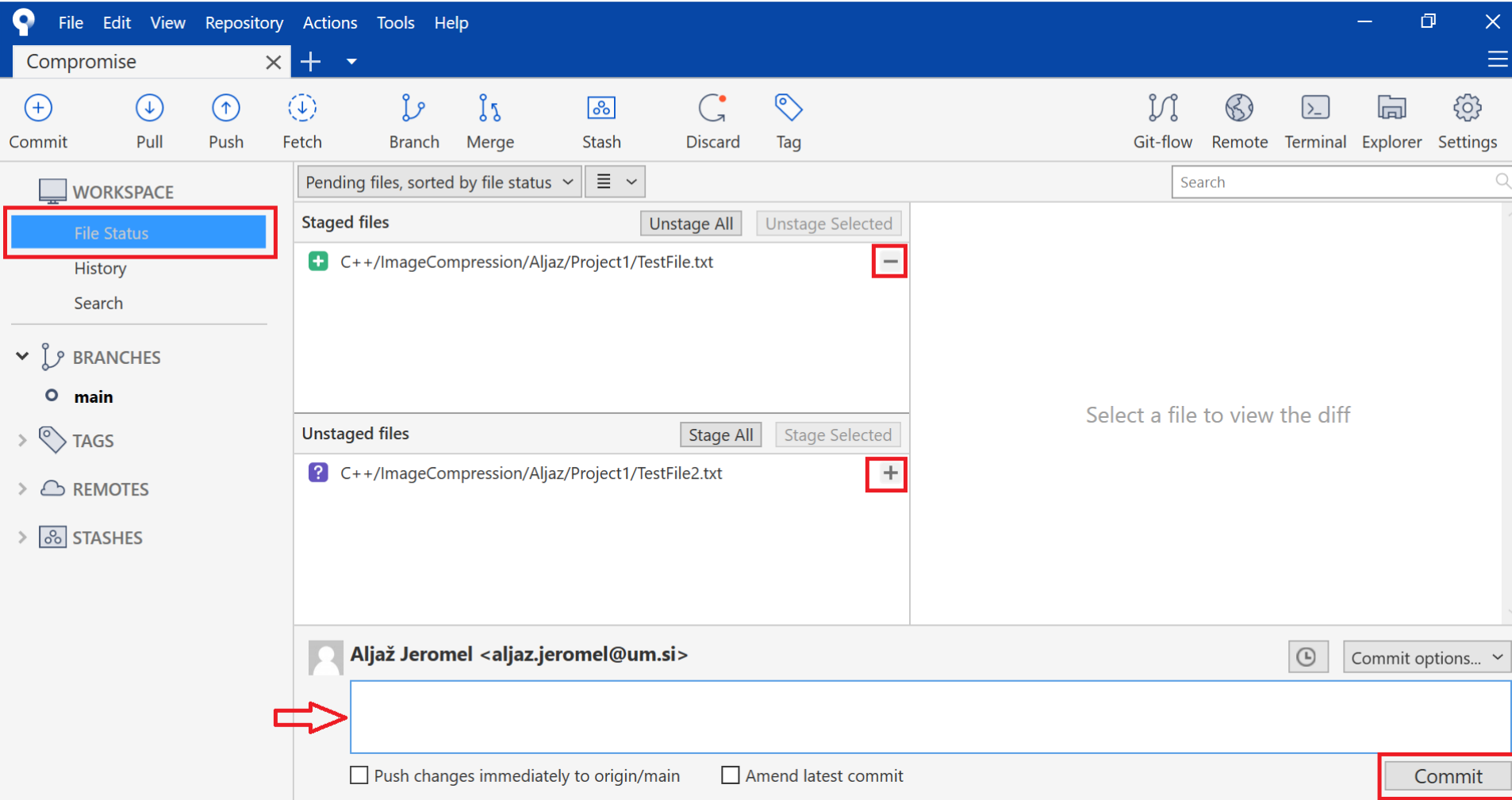
First steps in Sourcetree



The screenshot displays the Sourcetree application interface. The top menu bar includes File, Edit, View, Repository, Actions, Tools, and Help. Below the menu is a toolbar with icons for Commit, Pull, Push, Fetch, Branch, Merge, Stash, Discard, and Tag. The left sidebar shows the Workspace section with File Status, History (highlighted), and Search. Below this are BRANCHES (main), TAGS, REMOTES, and STASHES. The main area shows the commit history for the main branch, with a red box highlighting the following commits:

- Update namespace in BWT implementation
- Add BWT and Suffix tree implementations
- Update Readme
- Initial commit

■ Commit – creating a new local version



The screenshot shows the Visual Studio Code Git interface. The top menu bar includes File, Edit, View, Repository, Actions, Tools, and Help. The toolbar contains icons for Commit, Pull, Push, Fetch, Branch, Merge, Stash, Discard, and Tag. The left sidebar shows the Workspace view with File Status selected. The main area displays the Staged files section with one file: C++/ImageCompression/Aljaz/Project1/TestFile.txt. The Unstaged files section shows one file: C++/ImageCompression/Aljaz/Project1/TestFile2.txt. The bottom status bar shows the user name Aljaž Jeromel <aljaz.jeromel@um.si> and the Commit button. A red arrow points to the commit message input field, and a red box highlights the Commit button.

File Edit View Repository Actions Tools Help

Compromise

Commit Pull Push Fetch Branch Merge Stash Discard Tag

Git-flow Remote Terminal Explorer Settings

WORKSPACE

File Status

History

Search

BRANCHES

main

TAGS

REMOTES

STASHES

Pending files, sorted by file status

Staged files

Unstage All Unstage Selected

C++/ImageCompression/Aljaz/Project1/TestFile.txt

Unstaged files

Stage All Stage Selected

C++/ImageCompression/Aljaz/Project1/TestFile2.txt

Select a file to view the diff

Aljaž Jeromel <aljaz.jeromel@um.si>

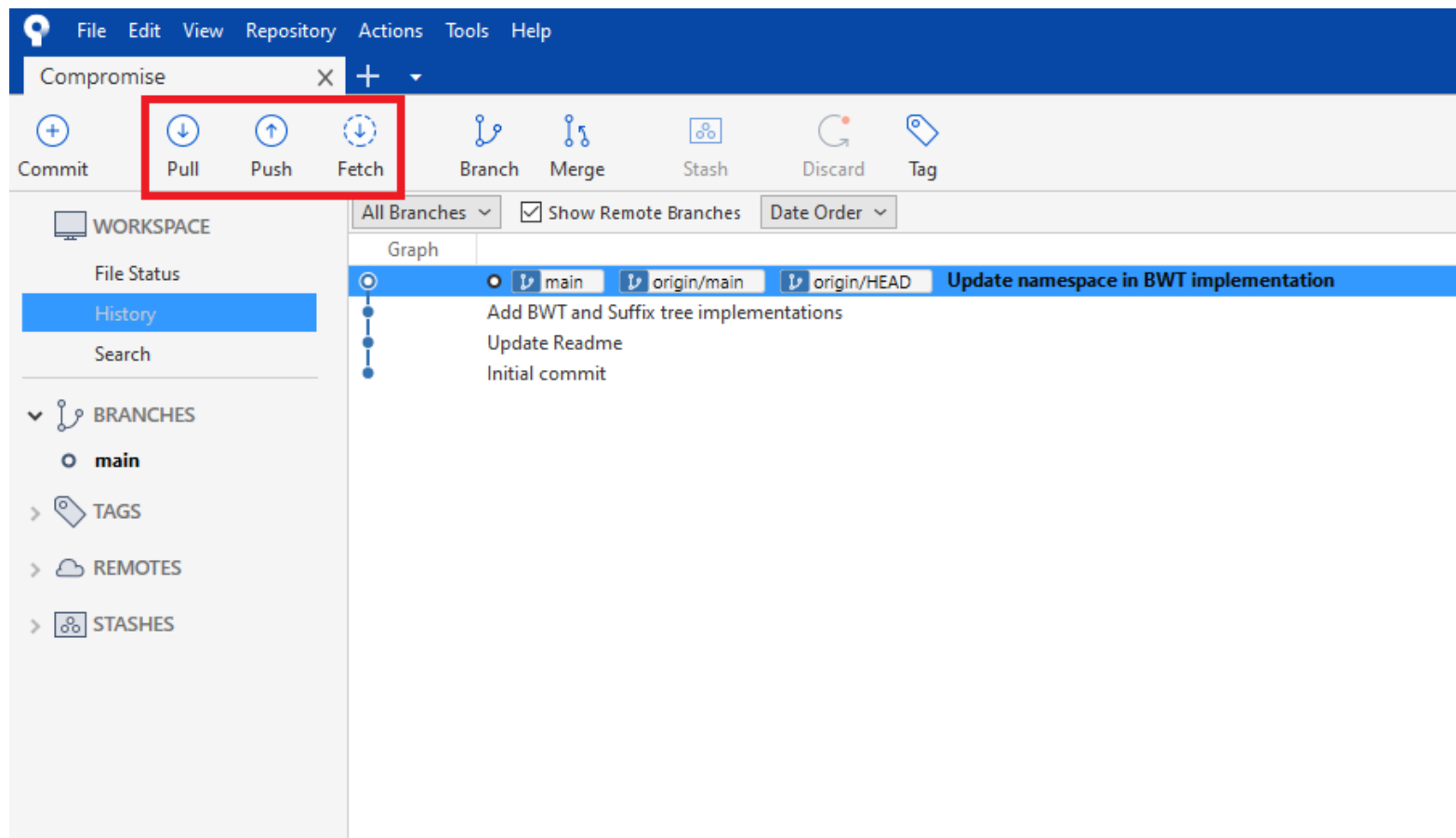
Commit options...

Push changes immediately to origin/main Amend latest commit

Commit

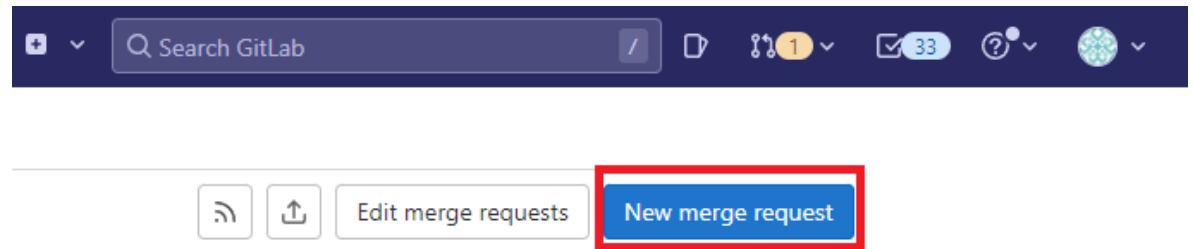
First steps in Sourcetree

- Updating – Fetch, push, pull



Sharing work – Merge requests

- C Compromise
- Project information
- Repository
- Issues 0
- Merge requests 1**
- CI/CD
- Security & Compliance
- Deployments
- Packages & Registries
- Infrastructure
- Monitor
- Analytics
- Wiki
- Snippets
- Settings



Search GitLab

Edit merge requests

New merge request